

30 V, 120 °C

Applications

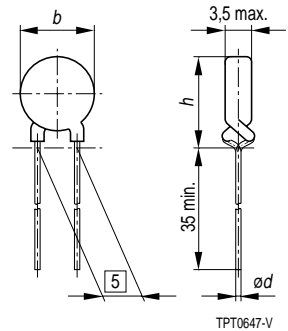
- Overcurrent and short-circuit protection

Features

- Coated thermistor disk
- Manufacturer's logo and type designation stamped on in white
- Low resistance
- For rated currents of up to 2,5 A
- UL approval (E69802)
- VDE approval (exception: C915)

Options

- Leadless disks and leaded disks without coating available upon request
- Thermistors with diameter $b \leq 11,0$ mm are also available on tape



Dimensions (mm)

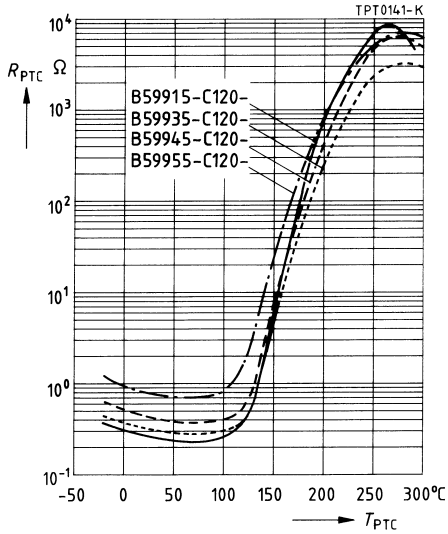
| Type | b_{max} | $\varnothing d$ | h_{max} |
|-------|-----------|-----------------|-----------|
| C 915 | 26,0 | 0,8 | 29,5 |
| C 935 | 22,0 | 0,6 | 25,5 |
| C 945 | 17,5 | 0,6 | 21,0 |
| C 955 | 13,5 | 0,6 | 17,0 |
| C 965 | 11,0 | 0,6 | 14,5 |
| C 975 | 9,0 | 0,6 | 12,5 |
| C 985 | 6,5 | 0,6 | 10,0 |
| C 995 | 4,0 | 0,5 | 7,5 |

| | | | |
|---|--------------|------------|----|
| Max. operating voltage ($T_A = 60\text{ °C}$) | V_{max} | 30 | V |
| Rated voltage | V_N | 12, 24 | V |
| Switching cycles (typ.) | N | 100 | |
| Switching time at V_{max}, I_{Smax} | t_S | ≤ 10 | s |
| Reference temperature (typ.) | T_{Ref} | 120 | °C |
| Resistance tolerance | ΔR_N | $\pm 25\%$ | |
| Operating temperature range ($V = 0$) | T_{op} | $-40/+125$ | °C |
| ($V = V_{max}$) | T_{op} | 0/60 | °C |

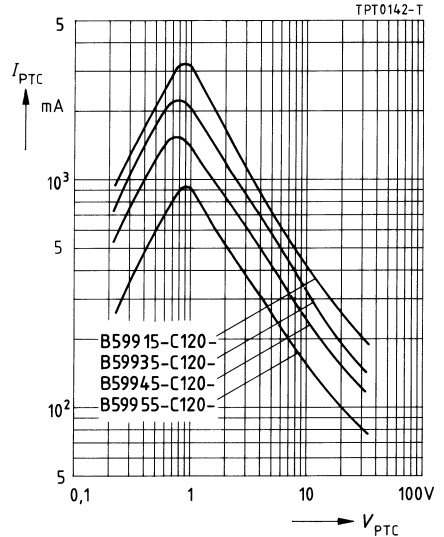
| Type | I_N | I_S | I_{Smax} ($V = V_{max}$) | I_r (typ.) ($V = V_{max}$) | I_r (typ.) ($V = 12$ V) | R_N | R_{min} | Ordering code |
|-------|-------|-------|---------------------------------|-----------------------------------|-------------------------------|----------|-----------|-----------------|
| | mA | mA | A | mA | mA | Ω | Ω | |
| C 915 | 2500 | 5000 | 15,0 | 220 | 490 | 0,2 | 0,1 | B59915-C120-A70 |
| C 935 | 1800 | 3600 | 10,0 | 170 | 380 | 0,3 | 0,2 | B59935-C120-A70 |
| C 945 | 1300 | 2600 | 8,0 | 115 | 250 | 0,45 | 0,3 | B59945-C120-A70 |
| C 955 | 850 | 1700 | 5,5 | 80 | 175 | 0,8 | 0,5 | B59955-C120-A70 |
| C 965 | 600 | 1200 | 4,3 | 70 | 150 | 1,2 | 0,7 | B59965-C120-A70 |
| C 975 | 450 | 900 | 3,0 | 60 | 130 | 1,8 | 1,1 | B59975-C120-A70 |
| C 985 | 250 | 500 | 1,0 | 45 | 100 | 4,6 | 2,7 | B59985-C120-A70 |
| C 995 | 120 | 240 | 0,7 | 25 | 54 | 13 | 7,8 | B59995-C120-A70 |

Characteristics (typical)

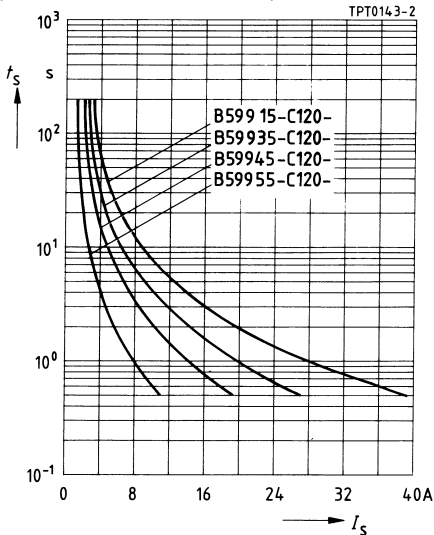
PTC resistance R_{PTC} versus
PTC temperature T_{PTC}
(measured at low signal voltage)



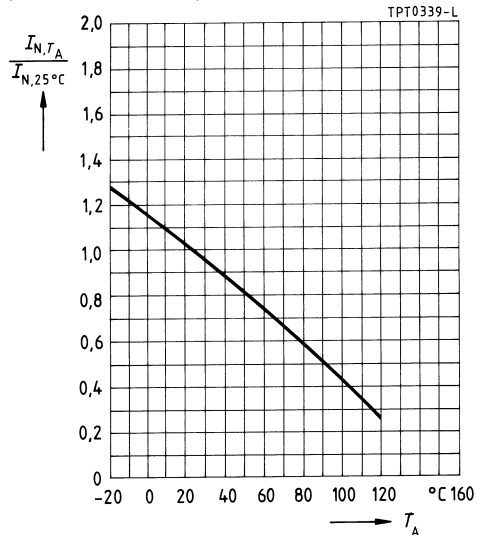
PTC current I_{PTC} versus PTC voltage V_{PTC}
(measured at 25 °C in still air)



Switching time t_S versus switching current I_S
(measured at 25 °C in still air)

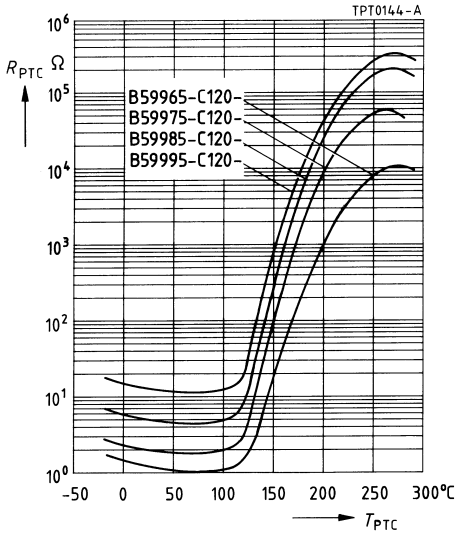


Rated current I_N versus ambient temperature T_A
(measured in still air)

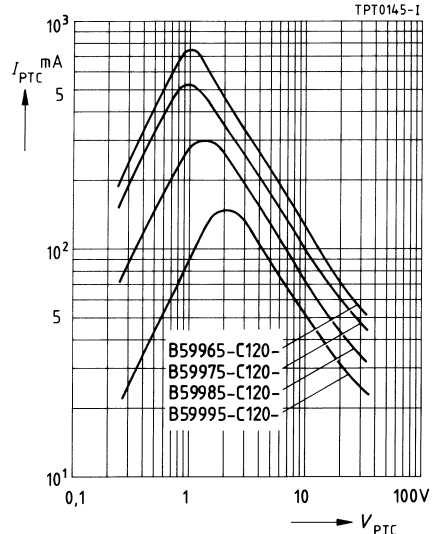


Characteristics (typical)

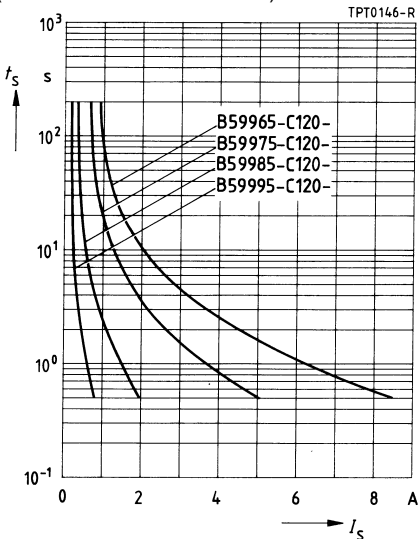
PTC resistance R_{PTC} versus
 PTC temperature T_{PTC}
 (measured at low signal voltage)



PTC current I_{PTC} versus PTC voltage V_{PTC}
 (measured at 25 °C in still air)



Switching time t_S versus switching current I_S
 (measured at 25 °C in still air)



Rated current I_N versus ambient temperature T_A
 (measured in still air)

